

## ABSTRACT

5           A filter flush system for temporary placement of a filter in an artery or  
vein is disclosed. The system typically includes a guidewire insertable within a guiding  
catheter, which has an occlusion balloon disposed about its distal end. The guidewire has  
an expandable filter, which can be collapsed to pass through a lumen and distal port of  
the guiding catheter. The lumen is adapted to receive a variety of endovascular devices,  
10 including angioplasty, atherectomy, and stenting catheters. Fluid medium or blood can  
be infused through the lumen of the guiding catheter to flush embolic material or mobile  
plaque generated during the endovascular procedures toward the expanded filter deployed  
downstream from the region of interest. Methods of using the filter flush system to  
entrap and remove embolic material from the vessel are also disclosed.

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